	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments
1	BRS	L1	20	(grayscale or greyscale or gray-scale or grey-scale or (gr!y near1 scale)) same (edge$4 near3 (direction$1 or orientation$1)) same (line$1 or linear) same (imag$3 or pixel$1 or pel$1 or picture$1)	US-PGPUB; USPAT	2007/01/04 15:24	
2	BRS	L2	2	1 same (verif$6 or authentic$6 or confirm$6 or valid$5 or invalid$5 or match$3)	US-PGPUB; USPAT	2007/01/04 16:51	
3	BRS	L3	78	(grayscale or greyscale or gray-scale or grey-scale or (gr!y near1 scale)) same (edge$4 near3 (direction$1 or orientation$1))	US-PGPUB; USPAT	2007/01/04 15:06	
4	BRS	L4	64	3 and ((line$1 or linear) near3 (signal$1 or data or imag$3 or object$1))	US-PGPUB; USPAT	2007/01/04 15:06	
5	BRS	L6	45	4 and (edge$4 near10 (locat$3 or find$3 or search$4 or browz$3 or brows$3 or track$3 or trac$4))	US-PGPUB; USPAT	2007/01/04 15:08	
6	BRS	L7	34	6 and (gradient$1 or (chang$3 near2 (intensit$3 or brightness or light$4 or lumin$5)))	US-PGPUB; USPAT	2007/01/04 15:09	

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments
7	BRS	L8	13	7 and (edge near10 (orientation$1 or direction$1) near10 (orthogonal or degree$1))	US-PGPUB; USPAT	2007/01/04 15:10	
8	BRS	L9	10	8 and (edge$4 near10 (verif$6 or authentic$6 or confirm$6 or valid$5 or invalid$5 or match$3))	US-PGPUB; USPAT	2007/01/04 15:21	
9	IS&R	L10	6065	(382/103,169,190,197,199,209,218,305).CCLS.	US-PGPUB; USPAT	2007/01/04 15:14	
10	BRS	L11	9	9 and 10	US-PGPUB; USPAT	2007/01/04 15:17	
11	BRS	L15	48	(dens$5 near5 gradient near6 direction$1) same edge$5 same (image$1 or pixel$1 or pel$1 or picture$1)	US-PGPUB; USPAT	2007/01/04 15:19	
12	BRS	L16	44	15 and (edge$4 near10 (direction$1 or orientation$1))	US-PGPUB; USPAT	2007/01/04 15:20	
13	BRS	L17	40	16 and (line or linear)	US-PGPUB; USPAT	2007/01/04 15:20	
14	BRS	L18	13	17 and (edge$4 near10 (verif$6 or authentic$6 or confirm$6 or valid$5 or invalid$5 or match$3))	US-PGPUB; USPAT	2007/01/04 15:21	

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments
15	BRS	L19	4	10 and 18	US-PGPUB; USPAT	2007/01/04 15:21	
16	BRS	L20	1	"6788817".PN.	USPAT; USOCR	2007/01/04 15:23	
17	BRS	L21	2	18 and ((grayscale or greyscale or gray-scale or grey-scale or (gr!y near1 scale)) near5 imag$3)	US-PGPUB; USPAT	2007/01/04 15:25	
18	BRS	L22	58	(edge$5 near3 direction$1) same gradient$1 same (intensit$3 or densit$3 or brightness) same (line or linear)	US-PGPUB; USPAT	2007/01/04 15:26	
19	IS&R	L24	1093	(382/151,291).CCLS.	US-PGPUB; USPAT	2007/01/04 15:27	
20	BRS	L23	8	22 same ((coordinate$1 or co-ordinate$1 or location$1 or position$3) near10 edge$5)	US-PGPUB; USPAT	2007/01/04 15:27	
21	BRS	L25	76	search$4 same (edge$5 near5 direction$1) same (pixel$1 or pel$1 or picture$1 or image$1) same (location or position$3)	USPAT	2007/01/04 15:29	
22	BRS	L26	8	25 same ((orthogonal$2 or parallel or degreee$1) near10 edge$5)	USPAT	2007/01/04 15:30	

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments
23	BRS	L27	45	(edge$4 near2 direction$3) same ((verif$6 or authentic$6 or confirm$6 or valid$5 or invalid$5 or match$3) near5 (condition$3 or criter$3 or threshold$3))	US-PGPUB; USPAT	2007/01/04 16:52	
24	BRS	L28	28	27 same (image$1 or pixel$1 or pel$1 or picture$1)	US-PGPUB; USPAT	2007/01/04 16:53	
25	BRS	L29	22	28 and (line or segment or linear or straight)	US-PGPUB; USPAT	2007/01/04 16:53	
26	BRS	L30	13	29 and gradient$1	US-PGPUB; USPAT	2007/01/04 16:53	

	Error Definition	Errors
23		
24		
25		
26		

Search Session History

Edit an existing query or compose a new query in the Search Query Display.

Select a search number (#) to:

- Add a query to the Search Query Display
- Combine search queries using AND, OR, or NOT
- Delete a search
- Run a search

Thu, 4 Jan 2007, 3:36:13 PM EST

Search Query Display

Recent Search Queries

#1 (((edge* <near/5> direction*)<in>ab) <and> (gradient*<in>ab))<and> ((location* or position*)<in>ab)

#2 (((edge* <near/5> direction*)<in>ab) <and> (gradient*<in>ab))<and> ((search* or track*) <in> ab)

#3 (((edge* <near/5> direction*)<in>ab) <and> (gradient*<in>ab))<and> ((search* or track*) <in> ab)

Results for "(((edge* <near/5> direction*)<in>ab) <and> (gradient*<in>ab))<and&g..." e-mail
Your search matched **3** of **1450046** documents.
A maximum of **100** results are displayed, **25** to a page, sorted by **Relevance** in **Descending** order.

» Search Options

View Session History

New Search

Modify Search

(((edge* <near/5> direction*)<in>ab) <and> (gradient*<in>ab))<and> ((search* or Search

Check to search only within this results set

Display Format: Citation Citation & Abstract

» Key

IEEE JNL	IEEE Journal or Magazine
IEE JNL	IEE Journal or Magazine
IEEE CNF	IEEE Conference Proceeding
IEE CNF	IEE Conference Proceeding
IEEE STD	IEEE Standard

view selected items Select All Deselect All

1. **Data acceptance for automated leukocyte tracking through segmentation spatiotemporal images**
Ray, N.; Acton, S.T.;
Biomedical Engineering, IEEE Transactions on
Volume 52, Issue 10, Oct. 2005 Page(s):1702 - 1712
Digital Object Identifier 10.1109/TBME.2005.855718
AbstractPlus | Full Text: PDF(3272 KB) IEEE JNL
Rights and Permissions

2. **Pseudoautomatic lip contour detection based on edge direction patterns**
Gordan, M.; Kotropoulos, C.; Pitas, I.;
Image and Signal Processing and Analysis, 2001. ISPA 2001. Proceedings of I
International Symposium on
19-21 June 2001 Page(s):138 - 143
Digital Object Identifier 10.1109/ISPA.2001.938617
AbstractPlus | Full Text: PDF(616 KB) IEEE CNF
Rights and Permissions

3. **A new heuristic edge extraction technique**
Shu, J.;
Acoustics, Speech, and Signal Processing, IEEE International Conference on I
Volume 12, Apr 1987 Page(s):285 - 288
AbstractPlus | Full Text: PDF(240 KB) IEEE CNF
Rights and Permissions

Web Results **1** - **10** of about **225,000** for **edge direction gradient gray verification**. (**0.20** seconds)

Tip: Save time by hitting the return key instead of clicking on "search"

[PDF] Face **verification** using correlation filters and autoassocoative ...
File Format: PDF/Adobe Acrobat
from four **directions**. (8=0",45",90",135"). 6. SUMMARY. This paper discussed an **edge gradient** based representation. of face images for face **verification** ...
ieeexplore.ieee.org/iel5/9048/28701/01287684.pdf - Similar pages

[PDF] Off-line skilled forgery detection using stroke and sub-stroke ...
File Format: PDF/Adobe Acrobat
We first identify **edge** pixels of cor-. responding strokes, then extract features corresponding to. **gradient** magnitude, **gradient direction**, **gray** level and ...
ieeexplore.ieee.org/iel5/7237/19583/00906086.pdf?arnumber=906086 - Similar pages
[More results from ieeexplore.ieee.org]

[PDF] Jurgen Buckner 1 MODEL BASED ROAD EXTRACTION FOR THE REGISTRATION ...
File Format: PDF/Adobe Acrobat
The left **edge direction** represents the present course of the. left road **edge**. ... d) maximum shade of **grey** of the road. e) **gradient** of the road edges ...
www.ifp.uni-stuttgart.de/publications/CommIV/bueckner.pdf - Similar pages

[DOC] A COMPLETE SCHEME FOR 3D SCENE RECONSTRUCTION USING STEREO VISION
File Format: Microsoft Word - View as HTML
The **gradient** and the **edge direction** are estimated by evaluating the maximum amplitude (with sign) of the discontinuity between the mean **gray** level computed ...
www.dune-sistemi.com/downloads/Articoli_Fabio/ArticoloR.doc - Similar pages

BAeHR, Hans-Peter; Quint, Franz: Feature extraction for map based ...
The **gradient directions** in Fig. 5 are **grey** value encoded with a ... 4 **Verification** and Interpretation of Image Data The map-based analysis of image data is ...
www.ubka.uni-karlsruhe.de/indexer-vvv/1994/bau-verm/4 - 16k - Cached - Similar pages

[PDF] Fast Frontal-View Face Detection Using a Multi-path Decision Tree
File Format: PDF/Adobe Acrobat
strategy and the use of **edge direction** features we could improve the detection ... −1 is the **gradient** field of the **grey** level image I(x, y) ...
www.springerlink.com/index/0XW1AF5D8NPYXWE9.pdf - Similar pages

[PDF] Robust Face Detection at Video Frame Rate Based on **Edge** ...
File Format: PDF/Adobe Acrobat
for **edge** processing. It is a **gradient**-based method which ... The **direction** of an **edge** depends on whether. the **grey** value changes from dark to bright or vice ...
doi.ieeecomputersociety.org/10.1109/AFGR.2002.1004177 - Similar pages

[PDF] ICPR'00: Off-Line Skilled Forgery Detection Using Stroke and Sub ...
File Format: PDF/Adobe Acrobat
nitude, b) **gradient direction**, c) **gray** level, d) ... proach for off-line **verification** of signatures by using pressure. features. ...
doi.ieeecomputersociety.org/10.1109/ICPR.2000.906086 - Similar pages

[Paper] A Scheme for Identification Computation of Palm Lines
A facet function is fit on a patch based on the **gray** values of the patch. ... The **direction** of **gradient** at the center (0,0) is and from the facet function ...
www.actapress.com/PDFViewer.aspx?paperId=29087 - Similar pages

[PDF] A Role for Digital Watermarking in Electronic Commerce
File Format: PDF/Adobe Acrobat - View as HTML
For each **edge** element, say at r, the image is resampled locally to. obtain a small window with its rows parallel to the image **gradient direction** n ...
cs.gmu.edu/~zduric/WebPages/Papers/ACM-CS.pdf - Similar pages

Result Page: 1 2 3 4 5 6 7 8 9 10 **Next**

Web Results **11** - **20** of about **225,000** for **edge direction gradient gray verification**. (**0.20** seconds)

1 1D 2 2.5D sketch 3 2D 4 2D Fourier transform (See Fourier ...
663 **gradient** magnitude thresholding 664 **gradient** matching stereo 665 **gradient** ... 2494 Doppler 2495 echocardiography 2496 **edge direction** 2497 **edge** magnitude ...
homepages.inf.ed.ac.uk/rbf/CVDICT/numtags - 66k - Cached - Similar pages

1 1D 2708 2.5D image 2 2.5D sketch 3 2D 2454 2D coordinate system ...
... **edge** detection 2496 **edge direction** 460 **edge** enhancement 461 **edge** finding (See **edge** detection) 462 **edge** following (See **edge** tracking) 2640 **edge gradient** ...
homepages.inf.ed.ac.uk/rbf/CVDICT/sorttags - 66k - Cached - Similar pages

[PDF] Text-Pose Estimation in 3D Using **Edge-Direction** Distributions
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the **edge-directions** by counting the pixels where the **gradient** surpasses a ... 5. a) **Verification** of theoretical model: Bhattacharyya distance between theo- ...
www.ai.rug.nl/~bulacu/iciar2005-bulacu-schomaker.pdf - Similar pages

[PDF] Obstacle Detection in Cluttered Traffic Environment Based on ...
File Format: PDF/Adobe Acrobat - View as HTML
the vehicle detection is realized by hypothesis and **verification** of objects. The ... formed by the **edge gradient** in the vertical **direction**. ...
journal.univagora.ro/download/pdf/61.pdf - Similar pages

[PDF] Shape from Single Stripe Pattern Illumination
File Format: PDF/Adobe Acrobat
First, we take a **grey** level image of the scene illuminated with a stripe. pattern. Subsequently, local **edge directions** and widths of stripes are measured ...
www.springerlink.com/index/B9PBE3MA3PBQMAMN.pdf - Similar pages

[PDF] Hardware Acceleration of **Edge** Detection Algorithm on FPGAs 1 ...
File Format: PDF/Adobe Acrobat - View as HTML
Classically, to calculate the **direction** of the **gradient** the arctangent is used. ... timing result of canny **edge** detection on a 256. 2. size **gray** scale Lena ...
www.celoxica.co.jp/techlib/files/CEL-W040414XRZ-282.pdf - Similar pages

[PDF] Radiation field **edge** detection in portal images
File Format: PDF/Adobe Acrobat
few seconds, and enable an instantaneous **verification** of the patient ... The local **direction** of the **gradient** at each approximate **edge** point in the image is ...
www.iop.org/EJ/article/0031-9155/36/12/015/pb911215.pdf - Similar pages

[PDF] **Verification** of dynamic multileaf collimation using an electronic ...
File Format: PDF/Adobe Acrobat
Quantitative off-line **verification** is achieved using a maximum. **gradient edge** detection algorithm to measure individual leaf positions for comparison with ...
www.iop.org/EJ/article/0031-9155/45/2/316/m00216.pdf - Similar pages

Automatic on-line electronic portal image analysis with a wavelet ...
They had very low contrast and some had a **gradient** in **gray**-value intensity due ... "The enhancement of radiotherapy **verification** images by an automated **edge** ...
link.aip.org/link/?MPHYA6/27/321/1 - Similar pages

Preprocessing of control portal images for patient setup ...
Three items were studied for this purpose the background **gradient** of intensity ... "The enhancement of radiotherapy **verification** images by automated **edge** ...
link.aip.org/link/?MPHYA6/26/2539/1 - Similar pages

Result Page: **Previous** 1 2 3 4 5 6 7 8 9 1011 **Next**

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edge direction gradient gray verificat Search

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Terms	Documents
L11 same (valid$6 or confirm$5 or authentic$6 or verif$7)	3

Database:
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IBM Technical Disclosure Bulletins

Search: L12

Refine Search | Recall Text | Clear | Interrupt

Search History

DATE: Thursday, January 04, 2007 **Purge Queries** Printable Copy Create Case

Set Name side by side	Query	Hit Count	Set Name result set
	DB=PGPB,USPT; PLUR=YES; OP=ADJ		
L1	("20020063893"|"6141437").PN.	2	L1
L2	L1 and (edge$5 or outlier$1 or outline$1 or boundar$3)	2	L2
L3	L2 and (orientation or direction)	2	L3
L4	(grayscale or grayscale or grey-scale or gray-scale or gray scale or grey scale) same edge$4 same (picture or image or pel or pixel or photo$6 or frame or video) same (brows$3 or search$4 or trac$3 or track$3)	342	L4
L5	L4 same (orientation or direction)	71	L5
L6	L5 same ((select$4 or extract$4) near5 sequen$6)	1	L6
L7	L5 same ((select$4 or extract$4) near5 sequen$7 near10 edge$4)	1	L7
L8	(gradient near3 (orientation or direction)) same edge$5	1270	L8
L9	L8 same (pel or pixel or picture or image)	700	L9
L10	L9 same (find$3 or search$3 or brows$3 or browz$3 or trac$3 or track$3)	136	L10
L11	L10 same (line or linear)	53	L11

L12	L11 same (valid$6 or confirm$5 or authentic$6 or verif$7)	3 L12

END OF SEARCH HISTORY

Day : Thursday

PALM INTRANET

Date: 1/4/2007
Time: 16:55:13

Inventor Name Search Result

Your Search was:

Last Name = FUJIEDA
First Name = SHIRO

Application#	Patent#	Status	Date Filed	Title	Inventor Name
07988921	Not Issued	164	03/12/1993	APPARATUS AND METHOD FOR DECIDING OR SETTING IDEAL LIGHTING CONDITIONS AND PHOTOGRAPHIC CONDITIONS, ETC., IN IMAGE PROCESSING SYSTEM, OR FOR AIDING IN DECIDING OR SETTING OF THE LIGHTING CONDITIONS	FUJIEDA, SHIRO
09445304	Not Issued	95	12/06/1999	IMAGE PROCESSING APPARATUS AND METHOD, MEDIUM STORING PROGRAM FOR IMAGE PROCESSING, AND INSPECTION APPARATUS	FUJIEDA, SHIRO
09974539	Not Issued	61	10/09/2001	Contour inspection method and apparatus	FUJIEDA, SHIRO
09996417	6954550	150	11/28/2001	IMAGE PROCESSING METHOD AND APPARATUS	FUJIEDA, SHIRO
10681373	Not Issued	30	10/09/2003	Image processing apparatus and image processing method	FUJIEDA, SHIRO
11373494	Not Issued	25	03/13/2006	Image processing method, three-dimensional position measuring method and image processing apparatus	FUJIEDA, SHIRO
11452433	Not Issued	25	06/14/2006	Three-dimensional measuring method and three-dimensional measuring apparatus	FUJIEDA, SHIRO
11454120	Not Issued	25	06/16/2006	Image processing apparatus	FUJIEDA, SHIRO

Inventor Search Completed: No Records to Display.

Search Another: Inventor

Last Name	First Name	
fujieda	shiro	Search

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Terms	Documents
(edge$1 and direction$1 and extract$4 and verif$8 and densit$3 and gradient$1 and orthogonal and linear).clm.	1

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US OCR Full-Text Database
EPO Abstracts Database
JPO Abstracts Database
Derwent World Patents Index
IBM Technical Disclosure Bulletins

uspgpub

Search: L1

Refine Search

Recall Text | Clear | Interrupt

Search History

DATE: Thursday, January 04, 2007 **Purge Queries** Printable Copy Create Case

Set Name side by side	Query	Hit Count	Set Name result set
DB=PGPB; PLUR=YES; OP=ADJ			
L1	(edge$1 and direction$1 and extract$4 and verif$8 and densit$3 and gradient$1 and orthogonal and linear).clm.	1	L1

END OF SEARCH HISTORY